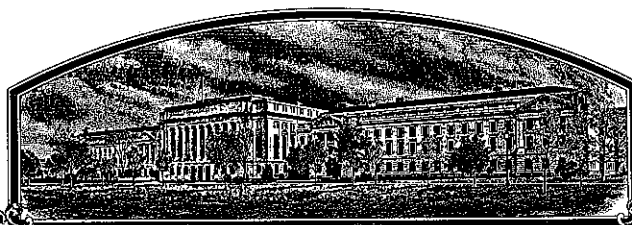


No.



9700351

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Pioneer Hi-Bred International, Inc.**

Whereas, THERE HAS BEEN PRESENTED TO THE

**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT, (34 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'25R26'



Attest:

*Mauda A. [Signature]*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*In Testimony Whereof, I have herunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this thirtieth day of September in the year of our Lord one thousand nine hundred and ninety-seven.*

*Samuel R. [Signature]*  
Secretary of Agriculture

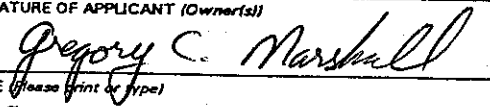
U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a).

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Pioneer Hi-Bred International, Inc.			25R26
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)		5. TELEPHONE (include area code)	<b>FOR OFFICIAL USE ONLY</b> PVPO NUMBER 9700351 DATE 6/25/97 FILING AND EXAMINATION FEE \$2450.00 DATE 06/25/97 CERTIFICATION FEE \$300.00 DATE 08/20/97
Research and Product Development Wheat Research 3850 N. 100 E. Windfall, IN 46076		(765) 945-7906	
6. FAX (include area code)		8. FAMILY NAME (Botanical)	
(765) 945-8313		gramineae	
7. GENUS AND SPECIES NAME			
Triticum aestivum			
9. CROP KIND NAME (Common name)			
Wheat			
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (Common name)			
Corporation			
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	
Iowa		May 1926	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS			14. TELEPHONE (include area code)
Dr. Gregory C. Marshall Pioneer Hi-Bred International, Inc. Wheat Research 3850 N. 100 E. Windfall, IN 46076			(765) 945-7906
			15. FAX (include area code)
			(765) 945-8313
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)			
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Applicant's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in a public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to PVPO)			
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)?			
<input type="checkbox"/> YES If "yes," answer items 18 and 19 below <input checked="" type="checkbox"/> NO If "no," go to item 20			
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?		19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?	
<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?			
<input type="checkbox"/> YES If "yes," give names of countries and dates <input checked="" type="checkbox"/> NO			
21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.			
The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.			
Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF APPLICANT (Owner(s))		SIGNATURE OF APPLICANT (Owner(s))	
 NAME (Please print or type) Gregory C. Marshall		NAME (Please print or type) _____	
CAPACITY OR TITLE Coordinator, North American Wheat Research		CAPACITY OR TITLE	
DATE 6/20/97		DATE	

**16A. Exhibit A. Origin and Breeding History of Pioneer Wheat Cultivar 25R26**

Pioneer ® cultivar '25R26', a soft red winter wheat (*Triticum aestivum* L., em Thell.), was developed by Pioneer Hi-Bred International, Inc.. Using a pedigree selection breeding method, 25R26 was derived from the four parent cross:

2548 sib./ Pioneer line W9057C//Pioneer line W9018A/2555 sib..

Pioneer line W9057C was derived from the cross: S76 sib./5517A5-5-1P-3. The cultivar, 5517A5-5-1P-3 was an experimental line from Purdue University, with the parentage Redcoat/8/Norin 33/6/Fairfield/4/PI 94587//Fultz/Hungarian/3/Fultz/Hungarian/5/Trumbull\*3//Hope/Hussar/4/Trumbull/3/CI 12061//Fultz/Hungarian/7/Knox. Pioneer line W9018A was derived from the cross: Pioneer line W521/S76. The parentage of Pioneer line W521 is one quarter CIMMYT spring wheat and three quarters soft red winter wheat, although the specific parents are not known. The detailed parentage of 25R26 is:

2548 sib./10/S76 sib./9/ Redcoat/8/Norin 33/6/Fairfield/4/PI 94587//Fultz/Hungarian/3/Fultz/Hungarian/5/Trumbull\*3//Hope/Hussar/4/Trumbull/3/CI 12061//Fultz/Hungarian/7/Knox/11/W521/S76//2555 sib.

The two single crosses: 2548 sib./W9057C and W9018A/2555 sib. Were made in the 1982 spring greenhouse cycle and designated WBB967 and WBB819, respectively. During the 1982 fall greenhouse cycle, the two F1's, WBB967 and WBB819, were crossed and the final cross designated WBC377. The subsequent breeding history of 25R26 is described below.

<u>Year</u>	<u>Generation</u>	
1982	Final cross	
1983	F1	Grown in spring transplant nursery at Windfall, IN.
1983-84	F2	Bulk populations grown at Windfall and Ft. Branch, IN. Individual head selections made.
1984-85	F3	Headrows from F2 selections grown at Windfall and Ft. Branch, IN. Heads harvested from selected rows, this selection from Windfall.
1985-86	F4	Headrows of F3 selections grown at Windfall and Ft. Branch, IN. Heads harvested from selected rows, this selection from Windfall.
1986-87	F5	Headrows of F4 selections grown at Windfall and Ft. Branch, IN. Heads harvested from selected rows. This selection cut in bulk at Windfall for early generation yield test.
1987-88	F6	F6 bulk grown in yield test. Heads harvested from yield plot. Headrows grown at Ft. Branch and Windfall, IN. Bulk not kept.
1988-89	F7	Headrows from heads taken from yield plot grown at Windfall and Ft. Branch, IN. Selected headrows cut and threshed individually. This selection from Ft. Branch.
1989-90	F8	Preliminary yield testing of F6 selections from F7 headrow.

Selection designated WBC377F3.

1990-91	F9	Advanced yield testing of WBC377F3. 200 heads harvested from small bulk increase.
1991-92	F10	Elite yield testing of WBC377F3. 100 purification headrows grown. Offtype rows destroyed, remainder harvested and threshed individually. 200 heads harvested from these rows.
1992-93	F11	Elite yield testing continues. Seed from purification headrows planted in individual progeny plots which surround 200 purification headrows. Offtype plots and headrows discarded prior to harvest. 100 headrows harvested and threshed individually. Progeny plots harvested in bulk. This increase later discarded due to coleoptile color mixture.
1993-94	F12	Elite yield testing continues, designated 'YW531'. Progeny plot increase grown from original purification headrows (1991-92) at Windfall, IN. Offtype plots destroyed prior to harvest. Plots harvested individually and re-bulked according to coleoptile color. This constitutes Breeder Seed. Bulk seed turned over to Pioneer's Parent Wheat Seed department for increase. About 1000 heads also turned over from plots with desired coleoptile color.
1994-95	F13	Elite yield testing continues, designated YW531. Pioneer's Parent Wheat Seed department continues increase.
1995-96	F14	Elite yield testing continues, designated 'XW531'. Pioneer Parent Wheat Seed department continues increase.

Decision to release WBC377F3 was made in August, 1996, at which time it was given the commercial code, 25R26.

The cultivar 25R26 was bred and selected at each generation for any or all of the following characteristics: disease resistance, plant type, plant height, head type, straw strength, maturity, grain yield, test weight, and milling and baking qualities.

25R26 has been observed to be uniform and stable since the 8<sup>th</sup> generation, or the last 7 generations. Variants are limited to slightly taller plants or awnless plants, neither at a frequency greater than 1/45,000 plants.

**16B. Exhibit B. Statement of Distinctness**

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Pioneer cultivar 25R26 is most similar to Pioneer cultivar 2548, but with the following distinguishing characteristics:

- 1) Coleoptile anthocyanin is present in 25R26 but absent in 2548.
- 2) The juvenile growth habit of 25R26 is prostrate while that of 2548 is semi-erect.
- 3) At booting, the flag leaf of 25R26 is very recurved while that of 2548 is more erect.
- 4) The phenol reaction of 25R26 is dark brown while that of 2548 is ivory.

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE DIVISION  
BELTSVILLE, MARYLAND 20705

EXHIBIT  
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY  
WHEAT (*Triticum* spp.)

NAME OF APPLICANT(S)

Pioneer Hi-Bred International, Inc.

ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)

Research and Product Development  
Wheat Research  
3850 N. 100 E.  
Windfall, IN 46076

FOR OFFICIAL USE ONLY

PVPO NUMBER

9700351

VARIETY NAME

25R26

TEMPORARY OR EXPERIMENTAL  
DESIGNATION

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g.    or   ) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: Munsell Color Charts for Plant Tissues. Please answer all questions for your variety; lack of response may delay progress of your application.

1. KIND:

1

1=Common

2=Durum

3=Club

4=Other (SPECIFY) \_\_\_\_\_

2. VERNALIZATION:

2

1=Spring

2=Winter

3=Other (SPECIFY) \_\_\_\_\_

3. COLEOPTILE ANTHOCYANIN:

2

1=Absent

2=Present

4. JUVENILE PLANT GROWTH:

1

1=Prostrate

2=Semi-erect

3=Erect

5. PLANT COLOR (boot stage):

1

1 = Yellow-Green

2 = Green

3 = Blue-Green

6. FLAG LEAF (boot stage):

2

1 = Erect

2 = Recurved

2

1 = Not Twisted

2 = Twisted

7. EAR EMERGENCE:

Number of Days Earlier Than \_\_\_\_\_ \*

0  2

Number of Days Later Than 2548 \*

8. ANTER COLOR:

1

1 = YELLOW

2 = PURPLE

9. PLANT HEIGHT (from soil to top of head, excluding awns):

cm Taller Than \_\_\_\_\_ \*

0  2

cm Shorter Than 2548 \*

## 10. STEM:

## A. ANTHOCYANIN

☐ 1 = Absent      2 = Present

## B. WAXY BLOOM

☐ 2      1 = Absent      2 = Present

## C. HAIRINESS (last internode of rachis)

☐ 1      1 = Absent      2 = Present

D. INTERNODE (SPECIFY NUMBER) 4

☐ 1      1 = Hollow      2 = Semi-solid      3 = Solid

## E. PEDUNCLE

☐ 2      1 = Absent      2 = Present

☐ 29      cm Length

## 11. HEAD (at Maturity):

## A. DENSITY

☐ 2      1 = Lax      2 = Middense      3 = Dense

## B. SHAPE

☐ 1      1 = Tapering      2 = Strap      3 = Clavate      4 = Other (SPECIFY) \_\_\_\_\_

## C. CURVATURE

☐ 2      1 = Erect      2 = Inclined      3 = Recurved

## D. AWNEDNESS

☐ 4      1 = Awnless      2 = Apically Awnletted      3 = Awnletted      4 = Awned

## 12. GLUMES (at Maturity):

## A. COLOR

☐ 1      1 = White      2 = Tan      3 = Other (SPECIFY) \_\_\_\_\_

## B. SHOULDER

☐ 2      1 = Wanting      2 = Oblique      3 = Rounded      4 = Square      5 = Elevated      6 = Apiculate

## C. BEAK

☐ 3      1 = Obtuse      2 = Acute      3 = Acuminate

## D. LENGTH

☐ 2      1 = Short (ca. 7mm)      2 = Medium (ca. 8mm)      3 = Long (ca. 9mm)

## E. WIDTH

☐ 2      1 = Narrow (ca. 3mm)      2 = Medium (ca. 3.5mm)      3 = Wide (ca. 4mm)

## 13. SEED:

## A. SHAPE

☐ 1      1 = Ovate      2 = Oval      3 = Elliptical

## B. CHEEK

☐ 1      1 = Rounded      2 = Angular

## C. BRUSH

☐ 1      1 = Short      2 = Medium      3 = Long

☐ 1      1 = Not Collared      2 = Collared

## D. CREASE

☐ 1      1 = Width 60% or less of Kernel  
2 = Width 80% or less of Kernel  
3 = Width Nearly as Wide as Kernel

☐ 1      1 = Depth 20% or less of Kernel  
2 = Depth 35% or less of Kernel  
3 = Depth 50% or less of Kernel

## 13. SEED: (continued)

## E. COLOR

☐ 3

1 = White

2 = Amber

3 = Red

4 = Other (SPECIFY) \_\_\_\_\_

## F. TEXTURE

☐ 2

1=Hard

2=Soft

## G. PHENOL REACTION (see instructions):

☐ 4

1 = Ivory

2 = Fawn

3 = Light Brown

4 = Dark Brown

5 = Black

14. DISEASE: (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)  
PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTEDStem Rust (*Puccinia graminis* f. sp. *tritici*)☐ 1

General

Leaf Rust (*Puccinia recondita* f. sp. *tritici*)☐ 2

General

Stripe Rust (*Puccinia striiformis*)☐Loose Smut (*Ustilago tritici*)☐Tan Spot (*Pyrenophora tritici-repentis*)☐ 3

General

Flag Smut (*Urocystis agropyri*)☐Halo Spot (*Selenophoma donacis*)☐Common Bunt (*Tilletia tritici* or *T. laevis*)☐

Septoria nodorum (Glume Blotch)

☐ 3

General

Dwarf Bunt (*Tilletia controversa*)☐

Septoria avenae (Speckled Leaf Disease)

☐Karnal Bunt (*Tilletia indica*)☐

Septoria tritici (Speckled Leaf Blotch)

☐ 3

General

Powdery Mildew (*Erysiphe graminis* f. sp. *tritici*)☐ 3

General

Scab (*Fusarium* spp.)☐ 3

General

"Snow Molds"

☐

"Black Point" (Kernel Smudge)

☐Common Root Rot (*Fusarium*, *Cochliobolus* and *Bipolaris* spp.)☐

Barley Yellow Dwarf Virus (BYDV)

☐Rhizoctonia Root Rot (*Rhizoctonia solani*)☐

Soilborne Mosaic Virus (SBMV)

☐ 2

General

Black Chaff (*Xanthomonas campestris* pv. *translucens*)☐

Wheat Yellow (Spindle Streak) Mosaic Virus

☐ 2

General

Bacterial Leaf Blight (*Pseudomonas syringae* pv. *syringae*)☐

Wheat Streak Mosaic Virus (WSMV)

☐

Other (SPECIFY) \_\_\_\_\_

☐

Other (SPECIFY) \_\_\_\_\_

☐

Other (SPECIFY) \_\_\_\_\_

☐

Other (SPECIFY) \_\_\_\_\_

☐

Other (SPECIFY) \_\_\_\_\_

☐

Other (SPECIFY) \_\_\_\_\_

☐

Other (SPECIFY) \_\_\_\_\_

☐



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15. INSECT: (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)

Exhibit C (Wheat) Page

PLEASE SPECIFY BIOTYPE (where needed)

Hessian Fly (*Mayetiola destructor*)

☒ 2 Biotypes B and E

Stem Sawfly (*Cephus* spp.)

☐

Cereal Leaf Beetle (*Oulema melanopa*)

☐

Russian Aphid (*Diuraphis noxia*)

☐

Greenbug (*Schizaphis graminum*)

☐

Aphids

☐

Other (SPECIFY) ☐

Other (SPECIFY) ☐

Other (SPECIFY) ☐

Other (SPECIFY) ☐

Other (SPECIFY) ☐

Other (SPECIFY) ☐

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

**16D. Exhibit D. Additional Description of the Variety****1) Yield and agronomic information.**

Preliminary yield testing of 25R26 began in the 1989-90 growing season and wide scale testing has been conducted from the 1990-91 growing season to the present. It has shown adaptation to the northern soft red winter wheat regions based on tests conducted in Michigan, Ohio, Indiana, Illinois, and Missouri (Table 1).

**2) Information on reaction to major diseases.**

Leaf rust - Excellent resistance to prevalent races in the northern soft wheat region. Postulated to have Lr3 and unidentified gene(s) based on seedling tests conducted by the Cereal Rust Lab, St. Paul, MN.

Powdery mildew - Good resistance to prevalent races of powdery mildew in the soft wheat region.

Soil borne mosaic and Wheat spindle streak mosaic viruses - Excellent resistance to both viruses.

Fungal leaf blights - Moderate tolerance to the complex of most common organisms which cause fungal leaf blights, including: *Septoria tritici* leaf blotch, *Stagonospora nodorum* glume blotch, and Tan spot.

**3) Information on reaction to major insects.**

Hessian fly - Susceptible to the predominant biotypes of Hessian fly in the northern soft wheat region. Has screened resistant to biotypes B and E, and susceptible to biotypes L and C in tests conducted by the Dept. Of Entomology, Purdue University, in conjunction with the USDA-ARS Insect and Weed Control unit.

**4) Information on milling and baking qualities.**

25R26 has demonstrated acceptable milling and baking qualities (Table 2).

**Table 1.** Varietal yield performance and agronomic characteristics recorded in Pioneer Elite yield tests during the period 1992-96.

Variety	Grain yield	Test weight	Plant height	Heading date	Winter surviv.	Leaf rust	Powdery mildew	Leaf blight	SSMV	SBMV <sup>+</sup>	Scab	Stem rust
	bu/ac	lb/bu	cm	Jan 1.	1-9 <sup>@</sup>	1-9 <sup>@</sup>	1-9 <sup>@</sup>	1-9 <sup>@</sup>	1-9 <sup>@</sup>	1-9 <sup>@</sup>	1-9 <sup>@</sup>	1-9 <sup>@</sup>
<b>25R26</b>	<b>84.1</b>	<b>56.4</b>	<b>92.2</b>	<b>139.6</b>	<b>6.5</b>	<b>8.8</b>	<b>6.4</b>	<b>5.3</b>	<b>8.4</b>	<b>7.6</b>	<b>7.0</b>	<b>2.7</b>
2510	79.1	55.8	93.2	140.6	6.0	5.8	5.3	6.5	8.5	7.8	5.6	8.7
2548	79.3	56.9	93.7	137.9	4.3	6.4	7.1	4.9	3.8	2.4	6.1	7.7
2555	78.1	55.4	99.8	137.3	4.2	5.8	5.9	5.2	7.5	7.5	3.0	6.3
Cardinal	76.8	56.7	109.0	139.6	5.4	6.5	4.6	5.6	6.8	3.6	6.5	6.7
Clark	70.7	56.5	99.6	133.6	5.6	3.8	5.5	5.0	7.6	6.8	4.5	5.7
lsd(0.05)	2.5	0.6	2.1	0.8	0.7	1.1	0.8	0.9	1.0	1.0	0.6	1.2
# envs.	51	32	11	10	12	4	8	6	5	4	14	2

<sup>@</sup> Scale of 1 to 9, where 9 = excellent or resistant; 1 = poor or susceptible.

<sup>+</sup> Data collected at the University of Illinois SBMV nursery.

Data in the above table gathered at: Truxton, MO; Altamont, IL; Mascoutah, IL; Carlisle, IN; Westport, IN; Ft. Branch, IN; Windfall, IN; Napoleon, OH; Pittsburg, OH; Bucyrus, OH; Blissfield, MI.

**Table 2.** Soft wheat quality data from the Pioneer Quality Lab, Johnston, IA 1992-96.

Variety	Flour yield	Break flr yld	Grain protein	AWRC	Cookie	Top grain	Top grain ab.	# Obs.
	%	%	%	%	cm	1-9 <sup>@</sup>	1-9 <sup>@</sup>	
<b>25R26</b>	<b>72.0</b>	<b>36.8</b>	<b>8.2</b>	<b>56.5</b>	<b>18.6</b>	<b>5.2</b>	<b>5.3</b>	<b>22</b>
2510	72.8	37.3	8.0	57.5	19.2	4.8	6.4	28
2548	70.2	35.5	8.3	58.0	18.6	4.1	5.4	34
2555	72.5	40.0	8.3	56.1	19.7	5.1	6.7	34
Cardinal	72.0	35.4	8.6	55.2	19.3	5.3	6.0	12
Clark	69.0	34.4	8.7	56.3	19.1	4.8	5.6	10

Trait abbreviations used in the above table:

AWRC = Flour Alkaline Water Retention Capacity (%)

Cookie = Cookie diameter in cm.

Top grain = Top grain rating of cookie, 1-9 scale (1=poor, 9=excellent)

Top grain abnorm. = Top grain abnormalities of cookie, 1-9 scale  
(1=narrow valleys, 9=wide valleys)

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**16E. Exhibit E. Statement of the Basis of Applicant's Ownership**

The variety, '25R26', for which plant variety protection is sought, was developed by employees of Pioneer Hi-Bred International, Inc., Research and Product Development. By agreement between employees and Pioneer Hi-Bred International, Inc., all rights to any invention, discovery, or development, while an employee, are assigned to Pioneer Hi-Bred International, Inc., with no rights retained by the employee.

Pioneer Hi-Bred International, Inc., Research and Product Development, believes it is the sole, original, and first breeder of 25R26 variety of soft red winter wheat for which it solicits a certification of protection.